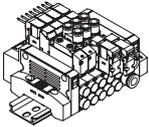
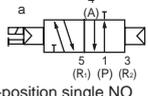
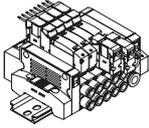
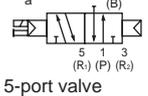
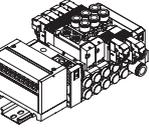
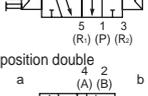
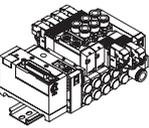
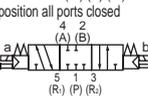
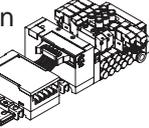
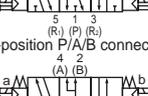
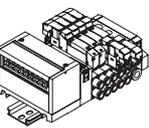
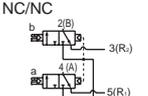
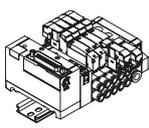
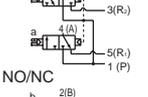
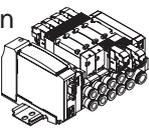
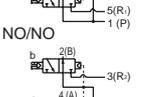


Series variation

MN4GA/4GB-FP1 Series

* For the metal base (integrated), refer to page 95.

* Refer to page 179 for master valve.

FP1 Electric actuator Pneumatic cylinders Assistive device Pneumatic valves F.R.L./Auxiliary Components Electronic Component Vacuum components Main line components Fluid control valves Main line components Anti-bacterial/ bacteria-removing filter FP2 Vacuum components Fluid control valves	Appearance / Series		Model No.	Electrical connections	Position Number of solenoid valves JIS symbol	Valve performance		Voltage (V)		
	Individual wiring manifold	Body piping	Base piping	Flow characteristics C (dm ³ /(sbar))	Cylinder bore size					
Individual wiring manifold	Body piping	 MN4GA180R	MN4GA1	Blank -E <input type="checkbox"/>	● 3-port valve 2-position single NC 	1.0 to 1.2	ø20 to ø40	100 AC 200 AC 24 DC 12 DC (*2)		
			MN4GA2	Blank -E <input type="checkbox"/> -B		2.2 to 2.5	ø40 to ø80			
		 MN4GB180R	MN4GB1	Blank -E <input type="checkbox"/>	● 5-port valve 2 position single 	1.0 to 1.2	ø20 to ø40			
			MN4GB2	Blank -E <input type="checkbox"/> -B		2.2 to 2.5	ø40 to ø80			
		Base piping	 Terminal block MN4GA280R	MN4GA1 (N3GA1) (N4GA1)	-T10	● 2-position double 	1.0 to 1.2		ø20 to ø40	24 DC 12 DC
				MN4GA2 (N3GA2) (N4GA2)	-T11 (-A2N)		2.2 to 2.5		ø40 to ø80	
	 Connector MN4GA280R		MN4GA1 (N3GA1) (N4GA1)	-T30	● 3-position all ports closed 	1.0 to 1.2	ø20 to ø40			
			MN4GA2 (N3GA2) (N4GA2)	-T5 <input type="checkbox"/> (-A2N)		2.2 to 2.5	ø40 to ø80			
	 Serial transmission MN4GA180R		MN4GA1 (N3GA1) (N4GA1)	-T6 <input type="checkbox"/> -T7 <input type="checkbox"/>	● 3-position A/B/R connection 	1.0 to 1.2	ø20 to ø40			
			MN4GA2 (N3GA2) (N4GA2)	-T8 <input type="checkbox"/> (-A2N)		2.2 to 2.5	ø40 to ø80			
	Reduced wiring manifolds	Body piping	 Terminal block MN4GB180R	MN4GB1 (N4GB1)	-T10	● Two 3-port valves integrated NC/NC 	1.0 to 1.2	ø20 to ø40	24 DC 12 DC	
				MN4GB2 (N4GB2)	-T11 (-A2N)		2.2 to 2.5	ø40 to ø80		
 Connector MN4GB180R		MN4GB1 (N4GB1)	-T30	NC/NO 	1.0 to 1.2	ø20 to ø40				
		MN4GB2 (N4GB2)	-T5 <input type="checkbox"/> (-A2N)		2.2 to 2.5	ø40 to ø80				
 Serial transmission MN4GB280R		MN4GB1 (N4GB1)	-T6 <input type="checkbox"/> -T7 <input type="checkbox"/>	NO/NC 	1.0 to 1.2	ø20 to ø40				
		MN4GB2 (N4GB2)	-T8 <input type="checkbox"/> (-A2N)		2.2 to 2.5	ø40 to ø80				
 Serial transmission MN4GB280R	MN4GB1 (N4GB1)	-T6 <input type="checkbox"/> -T7 <input type="checkbox"/>	NO/NO 	1.0 to 1.2	ø20 to ø40					
	MN4GB2 (N4GB2)	-T8 <input type="checkbox"/> (-A2N)		2.2 to 2.5	ø40 to ø80					

MN4GA/4GB-FP1 Series

		Electrical connections				Manual override	Other options
		Discrete valve/individual wiring manifold		Reduced wiring manifolds			
FP1	Electric actuator	Blank A	E3 E-connector with socket/terminal B C	T10 Common terminal block M3 thread specifications (left side)	T50 Flat cable with power supply terminal (left side)	Blank Non-locking/locking common	H Exhaust malfunction With prevention valve
	Pneumatic cylinders	● Lead wire length 300mm 				(Standard equipment) 	
	Assistive device	EO A	A2N A-connector downward without socket	T10R Common terminal block M3 thread specifications (right side)	T50R Flat cable with power supply terminal (right side)		F Port A/B filter integrated
	Pneumatic valves	● Lead wire length 300mm, 500mm, 1m, 2m, 3m 					F Port A/B filter
	F.R.L./Auxiliary Components Electronic Component	E0N E-connector without socket	● For AC voltage, (a) dimension is 3.5 mm longer ② The dimension is 3.5mm longer. 	T11 Common terminal block clamping specifications (left side)	T53 Flat cable without power supply terminal (left side)	① For non-locking, push to turn ON and release to turn OFF ② For locking, PUSH and turn 90° clockwise to hold the on state. Turn anti-clockwise to unlock OFF	Z1 Air supply spacer Z3 Exhaust spacer
	Vacuum components	E1 E-connector with socket/terminal	B BN DIN terminal box (BN: without terminal box)	T11R Common terminal block clamping specifications (right side)	T53R Flat cable without power supply terminal (right side)	M Non-locking	Z2 In-stop valve spacer
	Main line components					Protective cover Manual button ① Push to turn ON, release to turn OFF 	
	Fluid control valves	E2 E-connector A B C	E0J A EJ-connector	T30 D-sub-connector (left side)	T60 T61 Serial transmission		W1 Single spare wiring
	Main line components		● Lead wire length 1m, 2m, 3m 				
	FP2	Anti-bacterial/bacteria-removing filter	E2N E-connector Without socket B C	E2J A B C EJ-connector	T30R D-sub-connector (right side)	T70 T71 Serial transmission Thin slot type	
Vacuum components							
Vacuum components					T81 T82 Serial transmission Thin slot type		
Fluid control valves							

Electrical connection circuit diagram

Electrical connections		Without lead wire	With lead wire	With indicator lamp	With surge suppressor	Without socket	Circuit diagram	
	Blank	Grommet lead wire	●					
	E0	E-connector	●					
	E0*J	EJ-connector	●					
	E0N	E-connector				●		
	E1	E-connector	●					
	E2	E-connector		●	●	●		
	E2*J	EJ-connector		●	●	●		
	E2N	E-connector			●	●		●
	E3	E-connector	●		●	●		
	A2N	A-connector			●	●	●	
B	DIN terminal box							
	BN DIN terminal box (without terminal box)	●		●	●			
Option S	E2	E-connector		●	●	●		
	E2*J	EJ-connector		●	●	●		
	E2N	E-connector			●	●		●
	A2N	A-connector			●	●		●
Option E	E2	E-connector		●	●	●		
	E2*J	EJ-connector		●	●	●		
	E2N	E-connector			●	●		●
	A2N	A-connector			●	●		●

Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	FR/L Auxiliary Components Electronic Component	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/bacteria-removing filter	Vacuum components	Fluid control valves
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FP1

FP2